



Image
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UNITED STATES PATENT OFFICE AND TRADEMARK OFFICE

US Application No. 10/089,142

Art Unit 1733

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Exr. Yao

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Commissioner for Patents

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AMENDMENT

15 In response to telephone interviews with Examiner Yao on
March 16 & 18/04, please amend Claim 12 of the above application
as follows:

12. Mobile continuous structure forming apparatus including
a supporting portion, a material supplying portion, a mixing
portion, a matrix forming portion and a control portion; said
20 supporting portion including a plurality of spaced upstanding
frame members, a plurality of generally horizontally disposed
frame members joining adjacent upper and lower ends of said
upstanding frame members; said material supplying portion
including a plurality of reservoirs including a first liquid
25 reactive resin forming material and a particulate solid additive
material, said reservoirs operatively connected with said
supporting portion, said reservoirs being connected independently
with said mixing portion; said mixing portion including an
elongated mixing chamber adjustably disposed adjacent said
30 supporting portion to mix said additive particles with said first
liquid resin forming material substantially continuously and form
a substantially uniform mixture thereof while encapsulating
substantially all of said additive particles with said first
liquid resin forming material; said matrix forming portion
35 including first mixture distributing means extending adjustably
downwardly from said mixing chamber and being disposed adjacent
an outlet thereof to advance a porous blanket through said liquid
resin/additive mixture and migrate part of said mixture through

12. Mobile continuous structure forming apparatus including a supporting portion, a material supplying portion, a mixing portion, a matrix forming portion and a control portion; said supporting portion including a plurality of spaced upstanding frame members, a plurality of generally horizontally disposed frame members joining adjacent upper and lower ends of said upstanding frame members; said material supplying portion including a plurality of reservoirs including a first liquid reactive resin forming material and a particulate solid additive material, said reservoirs operatively connected with said supporting portion, said reservoirs being connected independently with said mixing portion; said mixing portion including an elongated mixing chamber adjustably disposed adjacent said supporting portion to mix said additive particles with said first liquid resin forming material substantially continuously and form a substantially uniform mixture thereof while encapsulating substantially all of said additive particles with said first liquid resin forming material; said matrix forming portion including first mixture distributing means extending adjustably downwardly from said mixing chamber and being disposed adjacent an outlet thereof to advance a porous blanket through said liquid resin/additive mixture and migrate part of said mixture through said blanket substantially uniformly and form a continuous resin matrix within said blanket with adhesive outer surfaces, second mixture distributing means disposed adjacent said first mixture distributing means for applying a thin coating of a preselected substantially immediately curing resin forming material over a final surface, positioning means disposed adjacent said second mixture distributing means for placement of a structure in a preselected final configuration and advance said coated matrix/blanket into a final configuration on said coated base surface, said positioning means including a cantilevered extendable arm assembly pivotally connected with said supporting portion, elongated structure grasping means disposed on said arm assembly, submersible guide means and mixture distributing means disposed adjacent a free end of said arm assembly, pressure applying means disposed adjacent said positioning means applying pressure to said matrix/blanket to tightly affix said coated